### Application Note - Calibrating Vision screen via program.

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### Calibrating a Vision screen via the program

The screen calibration function can be called by turning on certain system bits in the program, this is useful when the screen calibration if so far out that the screen does not work. The procedure is:

Verify that the PLC is standalone (No I/O wiring) on your desk and <u>without</u> any protective cover on the touchscreen.

Make sure that the battery was inserted properly and see what is the status of SB8 (Battery low (1=low). Check that the PLC is clean and also when it's OFF try to search any object (Dirt, Dust) between the behind the touchscreen.

Power ON, Touch the display and check the values SI 40, SI 41 - When the touch screen is not pressed, SI 40 and SI 41 equals -1:

ML.	Memory Long		Opr.	Addr.	Use	(je	60	Format	t Description	
DW	Double Word	1	SI	39		i.	0	DEC		
KB	X Bits		SI	40	<b>v</b>		-1	DEC	Touchscreen is being touched - X coordinates	
<	XInteger		SI	41			-1	DEC	Touchscreen is being touched-Y coordinates	
ïL	X Long		SI	42			255	DEC		
DW.	X Double Word		SI	43			15	DEC		
IF	Memory Float		SI	44			256	DEC	2	
B	System Bits		SI	45			0	DEC	Numeric Key Entry Out of Limit - Counter of Attempts (Enhanced)	
	System Integer		SI	46	V		100	DEC	Befresh HMI (units 10 msec), Buttons, Frame, Text, (V570, V290-C)	
187	Sustem Long	T								

If the values are not equal to -1, please clean the screen and remove the screen protector (if there is any).

SB 74 takes care to save calibration points to the EPROM. Please Try to calibrate the touchscreen using any stylus pen as follows:

When the PLC is connected, go to on-line mode (F9), go to SB 74 and press on "set", SB 74 will rise to 1

T	Timers		SB	65	<ul><li>✓</li></ul>		0	F8					
MB	Memory Bits		SB	66	<b>v</b>		0	F9	🔅 SB 74 🛛 🔀				
MI	Memory Integer		=	SB	67	<b>v</b>		0	F10				
ML	Memory Long			SB	68	<b>v</b>		0	F11	JD /4			
DW	Double Word			III	SB	69	<b>v</b>		0	F12	RESET		
XB	X Bits				SB	70			0	F13			
XI	X Integer				SB	71			0	F14			
XL	X Long								SB	72			0
XDW	X Double Word			12			U						
ME	Memory Float		SB	73				Disable HMI	cursor blinking (Standard) Calibrate Touchscreen (touchscreen models)				
SB	Sustem Rits		SB	74			1						
00	oyatom bita		CD.	75			0	Danual and C	Secolate DLC and UNI sector for				

Now, go to SB 73 and press on "set", calibration cursor will appear in the PLC's display.

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MI	Memory Integer		SB	67	<b>v</b>	0	F10	🕉 SB 73 - Disable H								
ML	Memory Long		SB	68	✓	 0	F11									
DW	Double Word		III	III	SB	69	<b>V</b>	0	F12	SB 73 - Disable						
XB	X Bits				SB	70			F13	HMI cursor						
XI	X Integer											71		0	F1/	
XL	X Long										 CD	70			C15	
XDW	X Double Word							30	12		U	F10				
MF	Memory Float		SB	73		0	Disable HM	Disable HMI cursor blinking (Standard) Calibrate Touchscreen (touchscreen models)								
SB	System Bits		SB	74		1										

## Tony Spearing March 2017